Pragmatic

LEADERS IN AUDIO/ VIDEO DISTRIBUTION & CONTROL SYSTEMS

SHORTFORM CATALOG
2004

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Chapter 1. CATS™ Series (Complete Audio Transmission System)

The CATS? System is designed to distribute line level stereo signals and composite video signal from a variety of high quality sources such as a CD Changer, DSS, DAT, DVD, Security Camera, or Surround Sound Processors. CATS technology is patent and patent pending. The transmitter encodes and processes the line level stereo signal and the composite video signal, and transmits it on a category 5, category 3, or a standard telephone grade wire (distance limitations may apply). On the same pair of wires, the Transmitter also receives IR universal remote control signals from the distant CATS, Receivers and then rebroadcasts the IR via the LED driver on the unit. Each product comes standard with a 19” rack mount panel and an outboard power supply. Most products can be ordered specially in a four-gang in-wall configuration. Contact factory for details and availability.

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CATS™ Hubs/Receivers

8BY8TAV

CATS™ 8 input / 8 output switch matrix and hub router to connect eight transmitters to eight receivers in a compact 1 Rack Space Unit. Can be expanded with additional hubs to provide up to 64 zone outputs. Other features include RS232 / RS485 connection for centralized control under a PC or control system. Features an IR Input at the rear panel for control of the router with an IR remote.

CATS™ Transmitter

CATS™ audio/video encoder and transmitter, front panel IR detector, remote IR detector input on rear panel, IR emitter output connection, 2 A/V source inputs with a built in 2x2 Audio/video matrix switcher, local Audio/Video outputs with a built in pre-amplifier, local outputs independent of the encoder signal on the category 5 wires, optional audiophile quality stereo power amplifier for local audio amplification, Cat 5 outputs. Specify RS232 or RS 485 control when ordering the equipment.

2TAVI	Audio/Video encoder with 2 A/V source outputs, A/V inputs
2TAIC	Same as above but Stereo only (Block out main, output AOX)
2TVIC	Same as above but Composite Video only (Block out the 6)
Amp Option	24 Watt/Channel audiophile quality stereo amplifier
LH Option	Long Haul option for video only-extends distance > 2000 feet

CATS™ Receivers

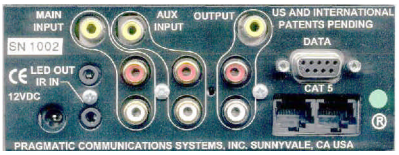
CATS™ audio/video decoder and receiver, front panel IR detector, remote IR detector input on the rear panel, IR emitter output connection, 2 local A/V source inputs with a built-in 3x1 Audio/Video matrix switcher, built-in audio pre-amplifier from the zone output, CAT5 input, optional built-in stereo amplifier specify RS323 or RS485 control. This unit is also available in a plastic enclosure for in-wall installation in a 4-gang rough-in bracket. Contact factory for details.

2RAVIPC	Includes 2 high performance mono block amplifiers built in the unit
2RAVIC	Standard Audio/Video decoder without power amplifier
2RAIPC	Decoder with stereo Audio and built-in power amplifier
2RAIC	Decoder with stereo Audio only
2RVIC	Decoder with Video only
HL Option	Long Haul option for Video only – extends distance to > 2000 feet

CATS™ Mini Transmitter

FRONT

BACK



The mini CATS™ system operates the same way as the rack mount system with the only difference being that it is smaller in size. The mini also does not have a built-in amplifier option. The CATS™ audio/video encoder and transmitter, front panel IR detector, remote IR detector input on the rear panel, IR emitter output connection, 2 A/V source with a built-in 2x2 Audio/Video matrix switcher, local Audio/Video outputs with a built-in pre-amplifier, local outputs independent of the encoder signal on the category 5 wires, optional audiophile quality stereo power amplifier for local audio amplification, Cat 5 outputs. Specify RS232 or RS485 control when ordering the equipment.

2TAVICMINI	Audio/Video encoder with 2 A/V source inputs, A/V outputs
2TAICMINI	Same as above but Stereo Audio only
2TVICMINI	Same as above but Composite Video only
LH Option	Long Haul option for Video only – extends distance > 2000 feet

CATS™ Mini Receiver

CATS™ audio/video decoder and receiver, front panel IR detector, remote IR detector input on the rear panel, IR emitter output connection, 2 local A/V source inputs with a built-in 3x1 Audio/Video matrix switcher, built-in audio amplifier for the zone output, Cat 5 input, optional built-in stereo power amplifier; specify RS232 or RS485 control.

2RAVICMINI	Standard Audio/Video decoder
2RAICMINI	Detector with Stereo Audio only
2RVICMINI	Detector with Video only
LH Option	Long Haul option for Video only – extends distance > 2000 feet

CATS-KP Keypad

The CATS™ keypad is a multi-purpose keypad that can select all the audio/video sources, and control volume, bass/treble, balance, along with the room lighting scenes, Heating and Air Conditioning. It fits in a 2-gang box. Intuitive menu-driven operation, built-in temperature sensor, facilitates other lighting control system, built-in IR detector.

CATS™ Software

CATS™ Graphic user Interface software to run on Windows 98 or Windows 2000 platform. This client/sever software allows control and configuration of the CATS™ Entertainment network from any personal computer with LAN or Internet access. The sever software runs on the computer connected to the hub/router and the client software runs on any computer on the LAN or WAN. An IP address for the sever PC is all that is needed. Allow the user to configure the network, control the volume, treble, bass, source selection, etc, in every zone. Up to 64 clients can be simultaneously supported by the sever.

NOTE: This software is not required for stand-alone operation of the CATS™ products. The system will operate autonomously under IR remote control commands or through RS232 / RS485 connection using other control systems in the market.

RS232 and RS485 Converter Boards

Bi-directional RS232 to RS485 converter boards to connect the CATS™ Entertainment Network to a personal computer.

Infra-Red Detector

This low-profile infrared repeating system measure as small as 0.6” x 1.4” has a rang of 50”. This mini device can be installed in a number of tight places including furniture, wall stuffed animals etc.

Chapter 2. DMS™ (Distributed Music System)

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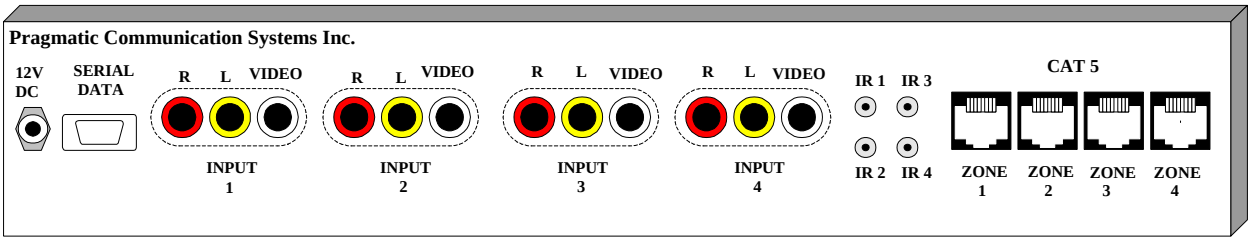
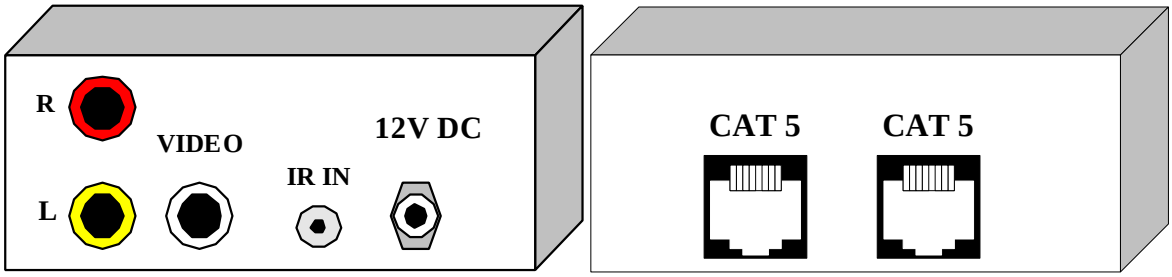
DISTRIBUTED AUDIO VIDEO ENTERTAINMENT SYSTEM

DAVES 4.4T



DAVES-Rx

Twisted Pair audio, video, and infrared signals over a single cat5 cable



DAVES-KP

In-Wall Stereo amplifier with Keypad (24 Watts per Channel)

DMS™ (Distributed Music System)

DMS™ 4.4T

Distributed Music System main transmitter unit. Distributes for audio sources to four audio zones on up to 1000 feet, of category 5 wires. Built-in FM/TV/CATV tuner for one of the audio sources. Front panel LCD and IR detector for control of the tuner. Each output zone has an independent four input pre-amplifier controlled from an IR remote control. Option to delete built-in tuner for external audio output, specify at the time of ordering the product. Two units can be stacked to serve 8 zones. Ideal for whole house music distribution.

DMS™ 2.1T

Distributed Music System main unit. Distributes two audio sources to on zone on category 5 wires, ideal for commercial applications such as restaurants, hotel lobby, bars, etc. Up to 32 receivers can be daisy chained to the category 5 wires. Same performance up to 3000 feet, of category 5 wires.

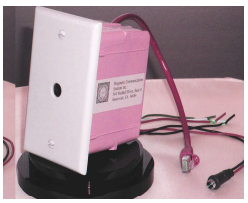
DMS-RX

Stereo Receiver unit with Infra-red remote interface in a small black ABS plastic enclosure. Intended for use with external power amplifier or other integrated receivers in the zone.

IWA-IRM In-Wall Mono amplifier with IR only control
IWA-IRS In-Wall Stereo amplifier with IR only control
IWA-KP In-Wall Stereo amplifier with Keypad (24 Watts per Channel)
DMS-KP DMS Keypad for control only

DMS-RX

IWA-KP/DMS-KP



IWA-IRM / IWA-IRA

Chapter 3. PADS (Pragmatic Audio Distribution System)

Pragmatic offers a comprehensive range of products for audio distribution category 5. These products are ideal for new construction as well as retrofit applications structured wiring.

PTW

This unit sends line level audio signals from the wall-plate to the PADS™ hub in CAT5 cable.

PTWI

This unit is similar to the TPW, but adds the IR emitter output for source equipment control.

PT

This unit sends line level stereo audio signal from the unit to PADS™ hub on CAT5 cable.

TPI

This unit is similar to PT, but adds IR emitter output for source equipment control.

PADS™ In-wall Amplifiers and Receivers

PADS™ In-wall Amplifiers with volume control fit in a single gang box. They are available in 15 watts, 30 watts, and 45 watts total continuous output power. Option is available for built in infra-red.

PA 15R

This unit receives line level stereo audio signals and amplifiers to drive speakers. Its available with 15 watts total continuous output power.

PA 30R

This unit receives line level stereo audio signals and amplifiers to drive speakers. Its available with 30 watts total continuous output power.

PA 45R

This unit receives line level stereo audio signals and amplifiers to drive speakers. Its available with 45 watts total continuous output power.

PA 15IR

This unit is similar to the PA 15 but adds an IR detector.

PA 30IR

This unit is similar to the PA 30 but adds an IR detector.

PA 45IR

This unit is similar to the PA 30 but adds an IR detector.

PADS™ HUB

This PADS™ hub receives line level stereo audio on cat5 cable from any of the PADS™ transmitter and distributes it to four rooms with power for the amplifiers on the cat5 cable. The system is infinitely expandable with the loop output.

Chapter 4. Affordable Elegance Product Line

Twisted Pair

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High-Performance Amplifiers

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Power Supply & Other Accessories

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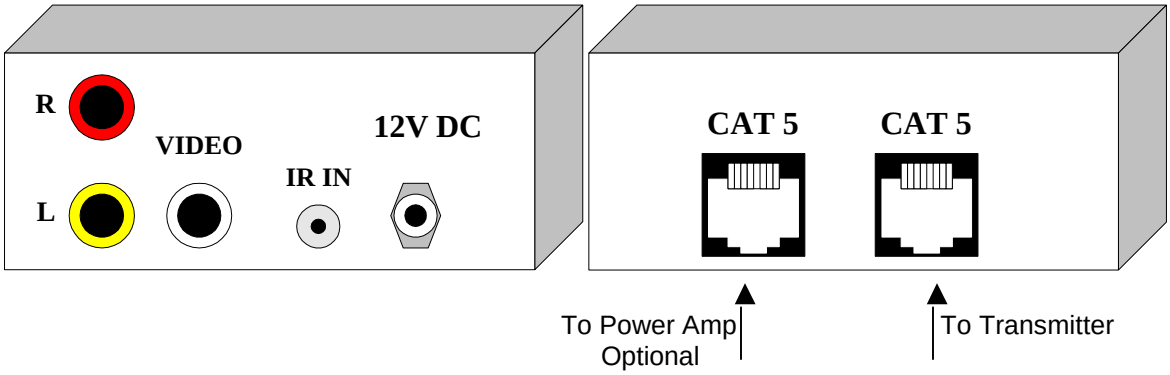
Twisted Audio Pair

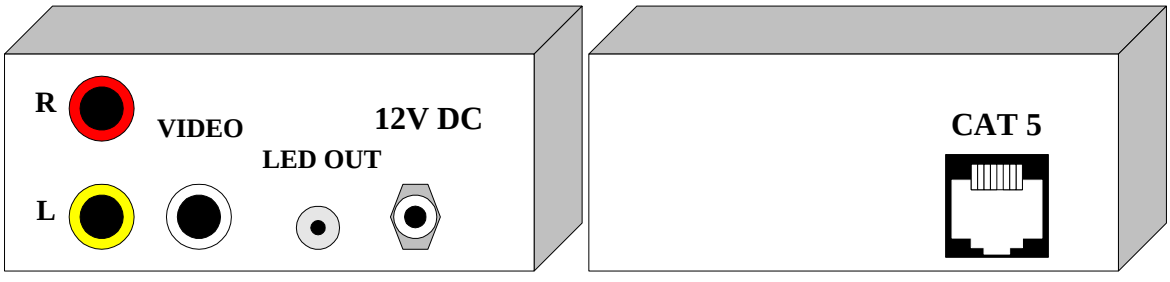
TPA Twisted Pair Audio System Stereo Amplifier and Receiver Pair

TPAVIR Twisted Pair audio, video, and infrared signals over a single cat5 cable
(Price is for a Transmitter & Receiver pair)

Front View **Back View**



Front View **Back View**



ECA

The ECA twisted pair system is the ideal choice for an affordable solution. The line-level stereo audio signals are transmitted and received using simple twisted pair wires. The remote ECA receiver can use Pragmatics' IWA™ (In-Wall Amplifier) or the SAA™ (Stereo Audio Amplifier) to power the speakers.

ECAV

The line-level stereo audio & video signals are transmitted and received using simple twisted pair wires. The remote receiver can use Pragmatics' IWA™ (In-Wall Amplifier) SAA™ (Stereo Audio Amplifier) to power the speakers. The remote receiver also receives a video signal and can transmit to ant RCA video input.

ECAVIR

The ECAVIR twisted pair system is the same as ECAV described above, but with the additional IR remote capability. The line-level audio, video & IR signals are transmitted and received using simple twisted pair wires.

Stereo In-Wall Amplifier

SIWA 24 Watt per channel stereo amplifier that fits in a single gang box.

This amplifier is available in 3 different configurations

1. As shown in the figure, pre-amp level signals and DC power inputs from the front and speaker-wire connected in the rear.

2. A unit only DC power input from the front and pre-amp level input signals and speaker-wire connection in the rear.

3. A unit with just a blank access panel in the front and all connections for DC power, pre-amp level input signals ns speaker-wire connection in the rear.

In-Wall Amplifier with Volume Control

IWAVC-224

In-Wall Stereo 24 Watts per channel audiophile quality power amplifier with rotary volume control in a single gang box.

IWAVC-236

In-Wall stereo 36 Watts per channel audiophile quality power amplifier with rotary volume control in a single gang box.

IWAVC-248

In-Wall Stereo 24 Watts per channel audiophile quality power amplifier with rotary volume control in a single gang box.

In-Wall Amplifier with Keypad

IWAKP-224

In-Wall Stereo 24 Watts per channel audiophile quality power amplifier with Keypad control in a single gang box.

IWAKP-236

In-Wall Stereo 36 Watts per channel audiophile quality power amplifier with Keypad control in a single gang box.

IWAKP-248

In-Wall Stereo 48 Watts per channel audiophile quality power amplifier with Keypad control in a single gang box.

Mono Block Amplifiers

MBA-124

Mono Block 24 Watts high performance audiophile amplifier

MSA-136

Mono Block 36 Watts high performance audiophile amplifier

MSA-148

Mono Block 48 Watts high performance audiophile amplifier

Stereo Audio Amplifier

SAA-224
Stereo 24 Watts per channel stereo audiophile amplifier

SAA-236
Stereo 36 Watts per channel stereo audiophile amplifier

SAA-248
Stereo 48 Watts per channel stereo audiophile amplifier

Multi Channel Amplifier

MCA1248

Front View

12-Channel Audiophile Level Amplifier with 110V AC power supply; Delivers true high fidelity performance; Produces big luxurious sound; Can power 6 rooms.

Back View

TV/CATV/FM Tuner

TUNR	Cable TV/Antenna tuner with LCD display, IR remote control
TUNRF	Tuner with a built-in high quality FM stereo receiver, LCD, IR remote
Option M	Add MTS stereo audio decoding for TV on the TUNR and TUNRF products
Option S	Add S Video Output
Option VC	Add Volume Control
Option 485	Add Rs485 Control

Front View

Back View

Display Partner

Display Partner™ Highly integrated TV/CATV/FM Tuner with a 3x1 audio switcher, pre-amplifier output, 24 Watts per channel stereo power amplifiers, front panel LCED readout, front panel IR detector, Remote IR detector connection rear panel. Ideal for Plasma Display, CRT, LCD, or DLP projectors and applications in corporate boardrooms.

Hard Disk Music Sever

Contact Manufacturer

The Muse provides up to 16 independent stereo audio channels of unequalled sound quality with Cable runs to 3000 feet! Distributes audio signals to more than 512 listening areas using only 1 category 5 cable. 500 hours of music in standard form, upgradeable, to 2000 hours. Applications: Hotels, restaurants, cruise ships, sports bars, shopping malls, arcades, etc.

Power Supply & Accessories

CPU-10 Central power supply unit for the amplifier (13.8 VDC at 10 Amps)

CPU-24 Central power supply unit for the amplifier (13.8 VDC at 24 Amps)

FCC approved; Highly regulated output voltage; can accept both 120 VAC and 200-260 VAC; output voltage 13.8 VDC; lightweight and small in size.

RF45 Coupler RJ-45 “Y” adaptor (bulk pack of 10 in a bag)

Category 5 Patch Cord
1 ft. long with boots

Package of 10 in a bag

Category 5 Patch Cord
3 ft. long with boots.

Package of 10 in a bag

Chapter 5 Security / Surveillance Camera Products & Video Converters

Cameras
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Specialty Cameras & Video Converters
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PVCM Series

PVC 75X **High Performance, Medium Resolution Color Camera**
PVC 76X **High Performance, High Resolution Color Camera**

- Sensitivity of less than 1 Lux
- 490 TV line resolution
- High signal-to-noise ratio
- True color retained from halogen
- S-VHS (Y/C) output option; 12V DC, 24 AC
- CCD Sensor; low power consumption
- Active pixel of 512 x 582 for PAL, 752 x 492 for NTSC

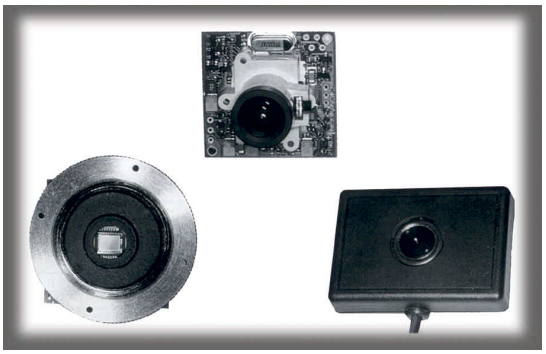
PVCM 33X **Multi-Function Board Color Camera with High Resolution**

- 1/3” High Resolution Color Module with 410,000 pixels
- Includes DSP and Auto functions, manually adjustable to AGC, AWB, E-S & backlight compensation
- Auto Iris Lens, in DC & Video Drive
- On-Screen display function, up to 8 characters

PVCM 715 **High Quality Camera in a small package**

- 450 TV line resolution with auto focus
- 16x Zoom
- S-VHS or composite video output
- Text overlay, RS232/422 or push button auto control
- 128x digital zoom; excellent low light capability
- High signal-to-noise ratio

PVCM 36X **Low Cost, High Performance B&W Camera**



- 32 mm standard size
- Available in 50 or 60Hz models with 380 TVL
- 12V DC; mirror mode options; composite blanking output
- Has AGC or MGC; Iris Output, Video Iris
- AC or DC Coupled Video and HD Blanking Option

PVCM 63X **High Performance Color Camera in a small package**

- Available in NTSC or PAL version
- 400 TVL resolution, 1/3” CCD IL, 1 Lux light sensitivity
- 12V DC or 24V AC power supply
- High signal-to-noise ratio
- Automatic gain control, operating from –6 to +20dB

In-Wall Cameras

IWC-BAWA Single gang unit In-Wall black and White Camera operates on cat 5

IWC-LOLA Single gang unit In-Low light night version camera system
IWC-COCA Single gang unit In-Wall high resolution color camera system

Optional faceplates in stainless steel are available at an extra cost.

The camera with different lens options including a pinhole lens, C/CS mount lens, and fish eye lens, etc. are available.
Please specify the lens selection when placing order.
Most cameras are supplied with a standard 3.8 mm lens.
Additional charges may apply for special lenses. Check with manufacture for available lens size.

Other Specialty Cameras and Video Converters

ECV-BNC **Low Cost, High Performance Video Transmitter/Receiver**

- Video signal transmitter over unshielded twisted pair (UTP) wires
- Transmitter CCTV and Security camera video signal
- Color Video transmitter up to 1000ft. B&W up to 2000ft.
- Dimensions 21/8 inches in long ¾ inch wide (diameter, cylindrical)

C to S Converter **Low Cost BNC to S-Video Converter**

Composite video signals are converted to S-Video with the Pragmatic C2S Converter. You get professional quality video output of a device, only 21/8 inches long and ¾ inches in diameter; and it can be placed almost anywhere.

DomCam™ **High Resolution B&W with built-in transmitter**

- 1/3” CCD Camera
- Horizontal Resolution >380 TVL; Sensitivity >0.1 Lux
- Mirror mode option; backlight compensation, selectable on the board
- Available with integrated lens
- Available in 50 or 60Hz models
- Diameter 3.5” and Height 3.5”
- Operating temperature –25 to +55 degree Celsius

Chapter 6. Wireless Products

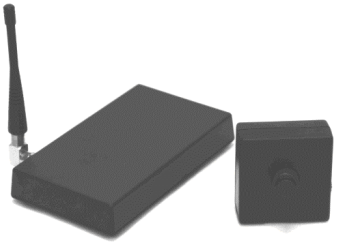
Video

TVSYS (True View Video Transmitter System)…….Page 21.
CopView /Color CopView…….Page 21.

Audio

True Music (Wireless Audio Transmission System)…….Page 22.

Wireless Products



TVSYS-1

TVSYS-2

TVSYS-5

TVSYS-1	High Performance B&W Wireless Camera System
TVSYS-2	High Performance Color Wireless Camera System
TVSYS-5	Wireless Video Transmitter and Receiver System

Specifications for TVSYS Products

Transmitter range: ~300-600ft. w/ 50,000 uV/M @ 3 Meters
Video output: 1.0 Vpp @ 75 Ohms REC jack
Receiver frequency range: 902-928 MHz
Video Bandwidth >5 MHz
Light weight and compact in size

Options for TVSYS Products

ANTP-915	High Performance panel antenna for Receiver
BATT-1	Battery recharging system w/ 1.5A Hr 9V or 12V battery pack
AVR-1	Audio/Video Signal router and battery charger for system
WATX	Wireless Audio Transmitter (factory installed option)
WARX	Wireless Audio Receiver (factory installed option)

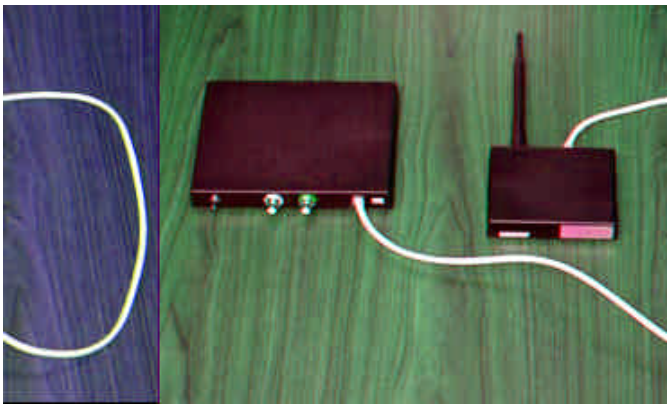
CopView	Black and White video camera with integral video transmitter
Color CopView	Color video camera with integral video transmitter

Specification for CopView Products

Video Receiver for all WCA and WVT transmitter systems
Video Output: 1.0 Vpp @ 75 Ohms RCA jack
Receiver Frequency Range: 902 – 928 MHz
DC Power Input: 10 – 15 VDC @ 300 mA
Video Bandwidth >5 MHZ
AC – DC wall transformer supplies
FCC Part 15 Certified

TrueMusic™

The TrueMusic™ is the ultimate solution for wireless audio. With the range of 300 feet and studio recording quality sound, it has no equal.



Specifications for TrueMusic™

Audio output: 1.0 Vpp @ 100 Ohms
Receiver Frequency Range: 900 – 928 MHZ
Frequency Response: 20 Hz – 20 KHz
Noise Level: -9 dBV 9typ.)
Stereo Channel Crosstalk: -90 dBV (typ.)
Total Harmonic Distortion (THD): 0.03% (typ.)
Automatic Mute Mode

Chapter: 7 Speakers

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In-Wall Speakers

IWST52
IWST62

Impedance: 8 Ohms
- 5.25’ and 6.5’ 2-way models

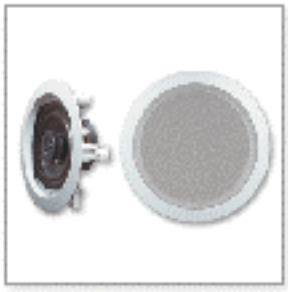
- 60W max - 35W continues power (IWST52)
- 80W – 40W power (IWST62)
- Kwik Klamps for easy mounting
- 5.25’ or 6.5’ poly carbonate rubber surround woofer, 1’ tweeter
- 15 degree tweeter rotation (no center)
- Indoor
- Aluminum grill material
- Color/ Paintable white

In-Ceiling

IC6-DVC

Impedance: 8 Ohms
- 6.5’ Dual Voice Coil w/ Twin Tweeters
- 60-Watts max power 30 Watts continues Power
- 6.5’ Poly carbonate rubber surround woofer, twin hard dome tweeters.
- Kwik Klamps for fast and easy installation
- Indoor
- Painable
- Aluminum grill material
- Color Paintable white

IC5
IC6



Impedance: 8 Ohms
- 2-Way, 6.5’
- 50W max / 25W continues power
- 0.5 hard dome tweeter, Ferro fluid cooled
- Kwik Klamps for easy installation
- Works in cover outdoors
- Paintable
- Aluminum grill material
- Color: Paintable white

ICT62A
CT82A

Impedance: 8 Ohms
2-Way, 6.5’ and 8’ models
- 150 Watts maximum power 100 minimum power
- 6.5’ or 8’ aluminum woofer and 1’ swivel ceramic tweeter
- Kwik Klamps for fast and easy installation
- Tweeter protection fuse, +/- 3db switch
- Works in covered outdoors
- Aluminum grill material
- Color/ Paintable white

Prices

These prices are offered to authorize, dealers only. Pragmatic Communication Systems Inc. does not publish or establish retail prices for these products. **Prices are subject to change without notice.**

Ordering information

You must be an authorized CAT™ dealer to order these products. All valid purchase orders can be sent to your local sales representative or faxed directly to the factory. Most CATS™ orders will ship within three week of receipt of the order at the factory. Affordable Elegance products ship from stock to within three weeks. All CATS™ receivers and decoders can also be ordered in a four gang in-wall configuration instead of the 19" rack mount chassis. **Minimum purchase order amount US $ 2500.00 or more. A service charge for orders less than the minimum order amount.**

Custom Configuration

Pragmatic Communication Systems Inc. will be happy to assist you with custom design systems. All custom systems will require a 50% pre-payment before manufacture, with the balance due prior shipment. All custom configurations will become the property of the authorized dealer and cannot be returned for credit. The lead-time on most custom designs is six weeks from the receipt of deposit and a firm purchase order.

Freight

Free freight (UPS Ground) within the Continental US an all orders with a value above $ 1800.00

Payment Terms

Standard terms are COD Company Check, Money Order, or Cashiers Check. Credit Cards are also available through Visa, Master Card, American Express, Bravo, Discover, and Novus. Open account terms are available to authorized dealers upon approval of credit. Past due accounts are subject to a 1.5% finance charge on all past due balances. Qualifies dealers in the Partner program may qualify for 2% day terms also.

Warranty

All CATS™ Products are protected under a two-year parts and labor warranty from the factory. The warranty period begins upon the date of purchase by the end user and is not transferable. If any products should prove to be defective after warranty period, Pragmatic Communication Systems Inc. will repair the defective product at the following rates:

CATS™ and DMS™ system components	**One Time Fee of $ 75.00**
Receivers with Amplifiers	**One Time Fee of $ 120.00**

Pragmatic will return the repaired product freight prepaid within the Continental US. If the product is sent to Pragmatic in other factory packaging, Pragmatic may at its discretion, charge the distributor for new carton and packaging.

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